

OIPE

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/09/331,375

DATE: 07/30/2001  
TIME: 10:53:45

Input Set : A:\sequencelisting.txt  
Output Set: N:\CRF3\07302001\I331375.raw

ENTERED

1 <110> APPLICANT: Cohen, C.  
2       Sampath, K.  
3 <120> TITLE OF INVENTION: TREATMENT OF MAMMALIAN MYOCARDIUM WITH MORPHOGEN LOCALLY,  
4       OR WITH MORPHOGENICALLY-RELATED MYOGENIC PRECURSOR CELLS  
5 <130> FILE REFERENCE: CIBT-P01-519  
6 <140> CURRENT APPLICATION NUMBER: 09/331,375  
7 <141> CURRENT FILING DATE: 1999-12-03  
8 <150> PRIOR APPLICATION NUMBER: PCT/US/97/23611  
9 <151> PRIOR FILING DATE: 1997-12-19  
10 <160> PRIOR APPLICATION NUMBER: 60/033,145  
11 <161> PRIOR FILING DATE: 1996-12-20  
12 <162> NUMBER OF SEQ ID NOS: 31  
13 <170> SOFTWARE: PatentIn Ver. 2.1  
14 <210> SEQ ID NO: 1  
15 <211> LENGTH: 97  
16 <212> TYPE: PFT  
17 <213> ORGANISM: Artificial Sequence  
18 <220> FEATURE:  
19 <223> OTHER INFORMATION: Description of Artificial Sequence: Generic  
20       sequence 7  
21 <220> FEATURE:  
22 <221> NAME/KEY: SITE  
23 <222> LOCATION: (2)  
24 <223> OTHER INFORMATION: Xaa=Tyr or Lys  
25 <220> FEATURE:  
26 <221> NAME/KEY: SITE  
27 <222> LOCATION: (3)  
28 <223> OTHER INFORMATION: Xaa=Val or Ile  
29 <220> FEATURE:  
30 <221> NAME/KEY: SITE  
31 <222> LOCATION: (4)  
32 <223> OTHER INFORMATION: Xaa=Ser, Asp or Glu  
33 <220> FEATURE:  
34 <221> NAME/KEY: SITE  
35 <222> LOCATION: (6)  
36 <223> OTHER INFORMATION: Xaa=Arg, Gln, Ser, Lys, or Ala  
37 <220> FEATURE:  
38 <221> NAME/KEY: SITE  
39 <222> LOCATION: (7)  
40 <223> OTHER INFORMATION: Xaa=Asp or Glu  
41 <220> FEATURE:  
42 <221> NAME/KEY: SITE  
43 <222> LOCATION: (8)  
44 <223> OTHER INFORMATION: Xaa=Leu, Val or Ile  
45 <220> FEATURE:  
46 <221> NAME/KEY: SITE  
47 <222> LOCATION: (11)

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67 <223> OTHER INFORMATION: Xaa=Gln, Leu, Asp, His, Asn, or Ser  
69 <220> FEATURE:  
70 <221> NAME/KEY: SITE  
71 <222> LOCATION: (12)  
72 <223> OTHER INFORMATION: Xaa=Asp, Arg, Asn, or Glu  
74 <220> FEATURE:  
75 <221> NAME/KEY: SITE  
76 <222> LOCATION: (13)  
77 <223> OTHER INFORMATION: Xaa=Trp or Ser  
79 <220> FEATURE:  
80 <221> NAME/KEY: SITE  
81 <222> LOCATION: (14)  
82 <223> OTHER INFORMATION: Xaa=Ile or Val  
84 <220> FEATURE:  
85 <221> NAME/KEY: SITE  
86 <222> LOCATION: (15)  
87 <223> OTHER INFORMATION: Xaa=Ile or Val  
89 <220> FEATURE:  
90 <221> NAME/KEY: SITE  
91 <222> LOCATION: (16)  
92 <223> OTHER INFORMATION: Xaa=Ala or Ser  
94 <220> FEATURE:  
95 <221> NAME/KEY: SITE  
96 <222> LOCATION: (18)  
97 <223> OTHER INFORMATION: Xaa=Glu, Gln, Leu, Lys, Pro, or Arg  
99 <220> FEATURE:  
100 <221> NAME/KEY: SITE  
101 <222> LOCATION: (19)  
102 <223> OTHER INFORMATION: Xaa=Gly or Ser  
104 <220> FEATURE:  
105 <221> NAME/KEY: SITE  
106 <222> LOCATION: (20)  
107 <223> OTHER INFORMATION: Xaa=Tyr or Phe  
109 <220> FEATURE:  
110 <221> NAME/KEY: SITE  
111 <222> LOCATION: (21)  
112 <223> OTHER INFORMATION: Xaa=Ala, Ser, Asp, Met, His, Gln, Leu, or Gly  
114 <220> FEATURE:  
115 <221> NAME/KEY: SITE  
116 <222> LOCATION: (23)  
117 <223> OTHER INFORMATION: Xaa=Tyr, Asn or Phe  
119 <220> FEATURE:  
120 <221> NAME/KEY: SITE  
121 <222> LOCATION: (26)  
122 <223> OTHER INFORMATION: Xaa=Glu, His, Tyr, Asp, Gln, Ala, or Ser  
124 <220> FEATURE:  
125 <221> NAME/KEY: SITE  
126 <222> LOCATION: (28)  
127 <223> OTHER INFORMATION: Xaa=Glu, Lys, Asp, Gln, or Ala

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129 <220> FEATURE:  
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134 <220> FEATURE:  
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136 <222> LOCATION: (31)  
137 <223> OTHER INFORMATION: Xaa=Phe, Leu or Tyr  
139 <220> FEATURE:  
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141 <222> LOCATION: (33)  
142 <223> OTHER INFORMATION: Xaa=Leu, Val or Met  
144 <220> FEATURE:  
145 <221> NAME/KEY: SITE  
146 <222> LOCATION: (34)  
147 <223> OTHER INFORMATION: Xaa=Asn, Asp, Ala, Thr, or Pro  
149 <220> FEATURE:  
150 <221> NAME/KEY: SITE  
151 <222> LOCATION: (35)  
152 <223> OTHER INFORMATION: Xaa=Ser, Asp, Glu, Leu, Ala, or Lys  
154 <220> FEATURE:  
155 <221> NAME/KEY: SITE  
156 <222> LOCATION: (36)  
157 <223> OTHER INFORMATION: Xaa=Tyr, Cys, His, Ser, or Ile  
159 <220> FEATURE:  
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161 <222> LOCATION: (37)  
162 <223> OTHER INFORMATION: Xaa=Met, Phe, Gly, or Leu  
164 <220> FEATURE:  
165 <221> NAME/KEY: SITE  
166 <222> LOCATION: (38)  
167 <223> OTHER INFORMATION: Xaa=Asn, Ser or Lys  
169 <220> FEATURE:  
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171 <222> LOCATION: (39)  
172 <223> OTHER INFORMATION: Xaa=Ala, Ser, Gly, or Pro  
174 <220> FEATURE:  
175 <221> NAME/KEY: SITE  
176 <222> LOCATION: (40)  
177 <223> OTHER INFORMATION: Xaa=Thr, Leu or Ser  
179 <220> FEATURE:  
180 <221> NAME/KEY: SITE  
181 <222> LOCATION: (44)  
182 <223> OTHER INFORMATION: Xaa=Ile, Val or Thr  
184 <220> FEATURE:  
185 <221> NAME/KEY: SITE  
186 <222> LOCATION: (45)  
187 <223> OTHER INFORMATION: Xaa=Val, Leu, Met, or Ile  
189 <220> FEATURE:

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Input Set : A:\sequencelisting.txt

Output Set: N:\CRF3\07302001\I331375.raw

190 <221> NAME/KEY: SITE  
191 <222> LOCATION: (46)  
192 <223> OTHER INFORMATION: Xaa=Gln or Arg  
194 <220> FEATURE:  
195 <221> NAME/KEY: SITE  
196 <222> LOCATION: (47)  
197 <223> OTHER INFORMATION: Xaa=Thr, Ala or Ser  
199 <220> FEATURE:  
200 <221> NAME/KEY: SITE  
201 <222> LOCATION: (48)  
202 <223> OTHER INFORMATION: Xaa=Leu or Ile  
204 <220> FEATURE:  
205 <221> NAME/KEY: SITE  
206 <222> LOCATION: (49)  
207 <223> OTHER INFORMATION: Xaa=Val or Met  
209 <220> FEATURE:  
210 <221> NAME/KEY: SITE  
211 <222> LOCATION: (50)  
212 <223> OTHER INFORMATION: Xaa=His, Asn or Arg  
214 <220> FEATURE:  
215 <221> NAME/KEY: SITE  
216 <222> LOCATION: (51)  
217 <223> OTHER INFORMATION: Xaa=Phe, Leu, Asn, Ser, Ala, or Val  
219 <220> FEATURE:  
220 <221> NAME/KEY: SITE  
221 <222> LOCATION: (52)  
222 <223> OTHER INFORMATION: Xaa=Ile, Met, Asn, Ala, Val, Gly, or Leu  
224 <220> FEATURE:  
225 <221> NAME/KEY: SITE  
226 <222> LOCATION: (53)  
227 <223> OTHER INFORMATION: Xaa=Asn, Lys, Ala, Glu, Gly, or Phe  
229 <220> FEATURE:  
230 <221> NAME/KEY: SITE  
231 <222> LOCATION: (54)  
232 <223> OTHER INFORMATION: Xaa=Pro, Ser or Val  
234 <220> FEATURE:  
235 <221> NAME/KEY: SITE  
236 <222> LOCATION: (55)  
237 <223> OTHER INFORMATION: Xaa=Glu, Asp, Asn, Gly, Val, Pro, or Lys  
239 <220> FEATURE:  
240 <221> NAME/KEY: SITE  
241 <222> LOCATION: (56)  
242 <223> OTHER INFORMATION: Xaa=Thr, Ala, Val, Lys, Asp, Tyr, Ser, Gly, Ile,  
243 or His  
245 <220> FEATURE:  
246 <221> NAME/KEY: SITE  
247 <222> LOCATION: (57)  
248 <223> OTHER INFORMATION: Xaa=Val, Ala or Ile  
250 <220> FEATURE:

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Input Set : A:\sequencelisting.txt  
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251 <221> NAME/KEY: SITE  
252 <222> LOCATION: (58)  
253 <223> OTHER INFORMATION: Xaa-Pro or Asp  
255 <220> FEATURE:  
256 <221> NAME/KEY: SITE  
257 <222> LOCATION: (59)  
258 <223> OTHER INFORMATION: Xaa-Lys, Leu or Glu  
260 <220> FEATURE:  
261 <221> NAME/KEY: SITE  
262 <222> LOCATION: (60)  
263 <223> OTHER INFORMATION: Xaa=Pro, Val or Ala  
265 <220> FEATURE:  
266 <221> NAME/KEY: SITE  
267 <222> LOCATION: (63)  
268 <223> OTHER INFORMATION: Xaa=Ala or Val  
270 <220> FEATURE:  
271 <221> NAME/KEY: SITE  
272 <222> LOCATION: (65)  
273 <223> OTHER INFORMATION: Xaa=Thr, Ala or Glu  
275 <220> FEATURE:  
276 <221> NAME/KEY: SITE  
277 <222> LOCATION: (66)  
278 <223> OTHER INFORMATION: Xaa=Gln, Lys, Arg, or Glu  
280 <220> FEATURE:  
281 <221> NAME/KEY: SITE  
282 <222> LOCATION: (67)  
283 <223> OTHER INFORMATION: Xaa=Leu, Met or Val  
285 <220> FEATURE:  
286 <221> NAME/KEY: SITE  
287 <222> LOCATION: (68)  
288 <223> OTHER INFORMATION: Xaa=Asn, Ser, Asp, or Gly  
290 <220> FEATURE:  
291 <221> NAME/KEY: SITE  
292 <222> LOCATION: (69)  
293 <223> OTHER INFORMATION: Xaa=Ala, Pro or Ser  
295 <220> FEATURE:  
296 <221> NAME/KEY: SITE  
297 <222> LOCATION: (70)  
298 <223> OTHER INFORMATION: Xaa=Ile, Thr, Val, or Leu  
300 <220> FEATURE:  
301 <221> NAME/KEY: SITE  
302 <222> LOCATION: (71)  
303 <223> OTHER INFORMATION: Xaa=Ser, Ala or Pro  
305 <220> FEATURE:  
306 <221> NAME/KEY: SITE  
307 <222> LOCATION: (72)  
308 <223> OTHER INFORMATION: Xaa=Val, Leu, Met, or Ile  
310 <220> FEATURE:  
311 <221> NAME/KEY: SITE

**Please Note:**

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

## VERIFICATION SUMMARY

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Input Set : A:\sequencelisting.txt

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L:401 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1  
L:404 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1  
L:407 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1  
L:410 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1  
L:413 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1  
L:416 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1  
L:419 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1  
L:820 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2  
L:823 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2  
L:826 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2  
L:829 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2  
L:832 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2  
L:835 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2  
L:838 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2  
L:997 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3  
L:1000 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3  
L:1003 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3  
L:1006 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3  
L:1009 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3  
L:1012 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3  
L:1015 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3  
L:1357 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14  
L:2566 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:25